

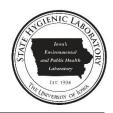
Iowa Influenza Surveillance Network (IISN)

Influenza-like Illness (ILI) and Other Respiratory Viruses

Weekly Activity Report



All data presented in this report are provisional and may change as additional reports are received



	Iowa Influenza Geographic Spread				
No Activity	Sporadic	Local	Regional	Widespread	

Note: See CDC activity estimates for definition www.cdc.gov/flu/weekly/overview.htm

Quick Stats	
Predominate influenza subtype	A(H3)
Percent of influenza rapid test positive	1% (7/708)
Percent of RSV rapid tests positive	0% (1/53)
Influenza-associated hospitalizations	1/1477 inpatients surveyed
Percent of outpatient visits for ILI	0.45% (baseline 1.7%)
Percent school absence due to illness	1.9%
Number of schools with ≥10% absence due to illness	0
Influenza-associated mortality -all ages (Cumulative)	0
Influenza-associated pediatric mortality (Cumulative)	0
Predominate non-influenza virus	Rhinovirus/enterovirus

Note: Deaths are considered influenza-associated when influenza is listed on the death certificate. This is an underestimate of influenza-related deaths. Cumulative mortality totals are from 9/29/2019 to the current week.

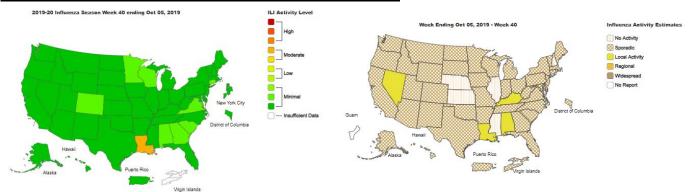
Iowa statewide activity summary:

Influenza activity is low in Iowa. The geographic spread of influenza in Iowa is sporadic. For this reporting week, the State Hygienic Laboratory identified two influenza A(H3) viruses from submitted samples, as well as one influenza A positive specimen pending subtyping. One influenza-related hospitalization was reported. No influenza outbreaks or deaths were reported this reporting week. The proportion of outpatient visits due to influenza-like illness (ILI) was 0.45%, which is below the regional baseline of 1.7. Surveillance sites reported detecting the following non-influenza respiratory illnesses with the most frequency: 185 rhinovirus/enterovirus, 18 adenovirus and 13 parainfluenza virus type one.

International activity summary - (WHO):

In the temperate zones of the southern hemisphere, influenza activity was low in most countries, except Chile where a second wave of influenza activity of predominately B viruses was reported. In the temperate zone of the northern hemisphere, influenza activity remained at inter-seasonal levels overall. Worldwide, seasonal influenza A viruses accounted for the majority of detections. Visit https://www.who.int/influenza/surveillance monitoring/updates/latest update GIP surveillance/en/ for more information. It was last updated 9/15/2019.

National activity summary - (CDC)-Last Updated in Week 40:

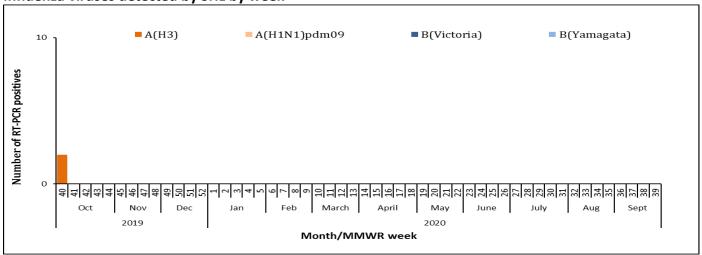


Detailed information can be found online at www.cdc.gov/flu/weekly/.

Laboratory surveillance program:

The State Hygienic Laboratory (SHL) is the primary laboratory in Iowa characterizing specimens for influenza surveillance. SHL reports the number of tests performed and the type and subtype/lineage of positive tests to the influenza surveillance network daily. SHL also sends a portion of specimens to CDC for further characterization.

Influenza viruses detected by SHL by week



Cumulative Influenza viruses detected by SHL by age group (9/29/19 - Current Week)

	Influenza A			Influenza B						
Age	A(H1N1)	A(H3)	Not	Total	Victoria	Yamagata	Not	Total	Total	Percent
Group	pdm09	А(ПЭ)	subtyped	Α	Lineage	Lineage	subtyped	В		
0-4	0	0	0	0	0	0	0	0	0	
5-17	0	0	0	0	0	0	0	0	0	
18-24	0	1	0	1	0	0	0	0	1	50%
25-49	0	0	0	0	0	0	0	0	0	
50-64	0	1	0	1	0	0	0	0	1	50%
>64	0	0	0	0	0	0	0	0	0	
Total	0	2	0	2	0	0	0	0	2	
Percent		100%								

Table 1 and 2 Notes: Cell counts of three or less are sometimes suppressed to protect confidentiality. Totals by age may not add up to totals by subtype/lineage due to missing age information. Only cases of lowa residents are included. Specimens listed as "not subtyped" may be pending or were not able to be subtyped due to weak positive lab results. This can be due to poor collection, timing of collection or stage of infection.

Rapid influenza and RSV test surveillance:

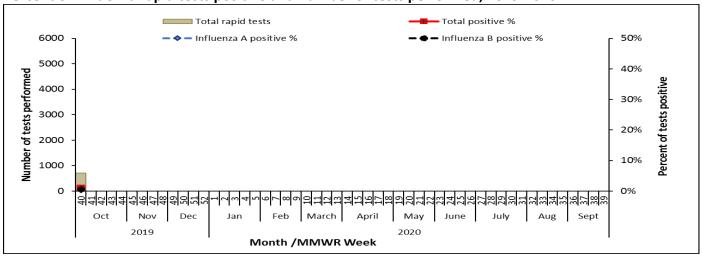
The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of influenza and respiratory syncytial virus (RSV) rapid tests performed and the number of tests positive. This table includes only the number of patients tested for influenza or RSV at laboratory surveillance sites throughout the state. This table does not provide case counts.

Table 3: Percent of influenza rapid tests positive and number of tests performed by region for the present week

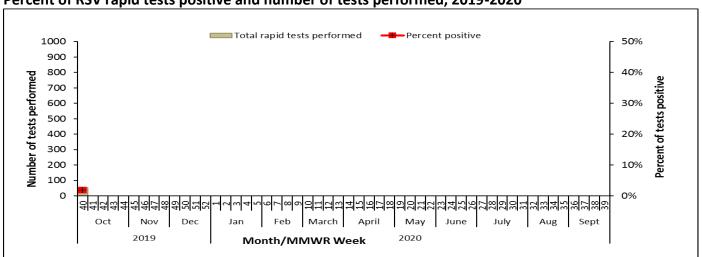
2501011		RAPID IN	IFLUENZA TES	TS	RAPID RSV TESTS		
REGION	Tested	Flu A	Flu B	% Positive	Tested	Positive	% Positive
Region 1 (Central)	178	3	0	1.7	10	0	0
Region 2 (NE)	34	0	2	5.9	10	0	0
Region 3 (NW)	51	0	0	0	14	0	0
Region 4 (SW)	37	0	0	0	2	0	0
Region 5 (SE)	26	0	0	0	8	0	0
Region 6 (Eastern)	382	0	2	0.5	9	1	11.1
Total	708	3	4	1.0	53	1	1.9

Note: see map in the school section for the counties in each region.

Percent of influenza rapid tests positive and number of tests performed, 2019-2020



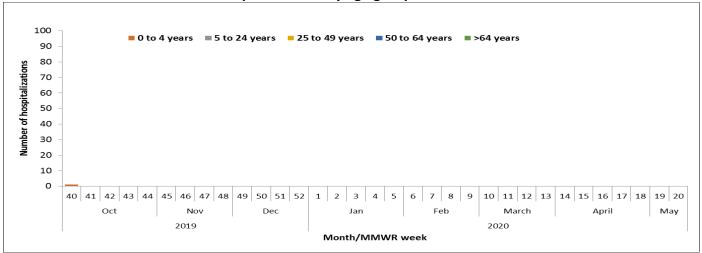
Percent of RSV rapid tests positive and number of tests performed, 2019-2020



Influenza-associated hospitalizations:

Sentinel hospitals that participate in IISN voluntarily track and report the number of influenza-associated hospitalizations and the total number of inpatients each week. Iowa hospitals interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or andy.weigel@idph.iowa.gov for more information.

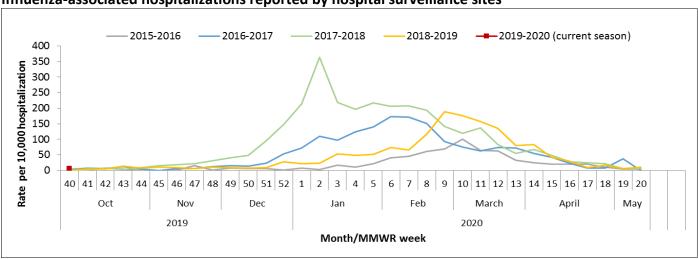
Number of influenza-associated hospitalizations by age group and week



Number of influenza-associated hospitalizations reported by age group

AGE	CURRENT WEEK	CUMULATIVE (9/29/19– CURRENT WEEK)
Age 0-4	1	0
Age 5-24	0	0
Age 25-49	0	0
Age 50-64	0	0
Age >64	0	0
Total	1	0

Influenza-associated hospitalizations reported by hospital surveillance sites



Outpatient health care provider surveillance program (ILINet):

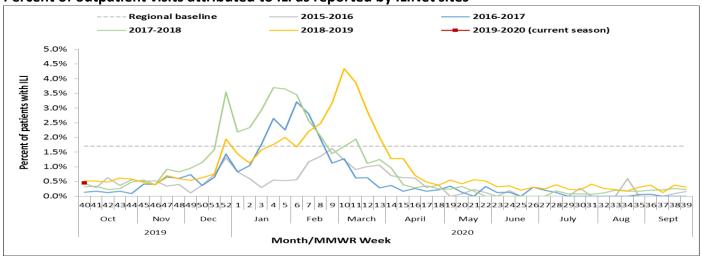
Outpatient health care providers who participate in the ILINet (a national influenza surveillance program) report the number of patients seen with influenza-like illness and the total number of patient visits each week. This system is a key part of Iowa's influenza surveillance. Iowa health care providers interested in joining this surveillance program should contact Andy Weigel at 515-322-1937 or andy.weigel@idph.iowa.gov for more information.

Outpatient visits for influenza-like illness (ILI)

Week	Age 0-4	Age 5-24	Age 25-49	Age 50-64	Age >64	Total ILI	%ILI
Week 40, October 5	9	12	3	0	1	25	0.45

Note: Influenza-like Illness is defined as a fever of ≥100° F as well as cough and/or sore throat.

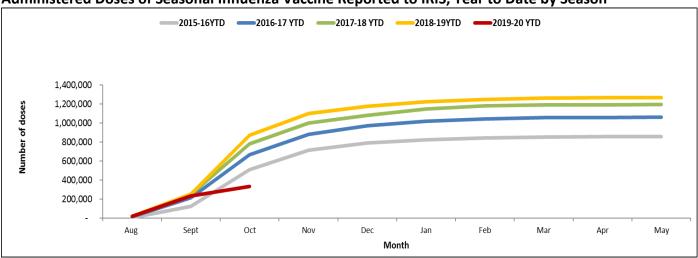
Percent of outpatient visits attributed to ILI as reported by ILINet sites



Seasonal influenza vaccination:

Seasonal influenza vaccination data in Iowa is based on doses reported to the Iowa Immunization Registry Information System (IRIS). IRIS is a confidential, computerized, population-based system that tracks immunization for children, adolescents and adults who are seen in a variety of public and private healthcare provider sites throughout the state of lowa. For more information on the immunization data, contact Kim Tichy, IRIS coordinator at 515-281-4288 or kimberly.tichy@idph.iowa.gov.

Administered Doses of Seasonal Influenza Vaccine Reported to IRIS, Year to Date by Season



Note: The data for the 2018-2019 season is only up to the current week and there is a lag between the vaccine administration date and the date reported to the IRIS. The current season's data will be adjusted as additional data is received.

Long-term Care Outbreaks:

Number of long-term care outbreaks investigated

REGION	CURRENT WEEK	CUMULATIVE (9/29/19– CURRENT WEEK)
Region 1 (Central)	0	0
Region 2 (NE)	0	0
Region 3 (NW)	0	0
Region 4 (SW)	0	0
Region 5 (SE)	0	0
Region 6 (Eastern)	0	0
Total	0	0

Note: see map in the school section for the counties in each region.

School surveillance program

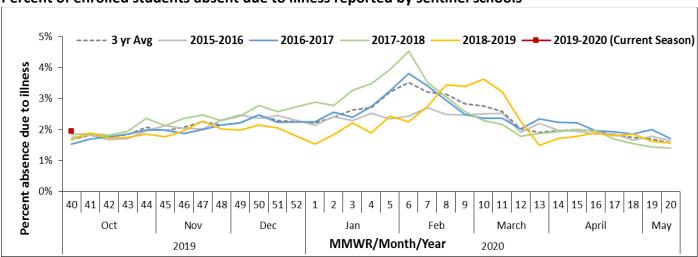
IDPH monitors illnesses in schools from two different types of reporting: 10% school absence reports and weekly sentinel illness reporting. Iowa schools (K-12) track and report (including non-influenza illnesses) when the number of students absent with illness reaches or exceeds 10% of total student enrollment. Iowa sentinel schools that participate in IISN voluntarily track and report absence due to all illness and the total enrollment each week. This data provides excellent trends for influenza activity as well as age-specific information used to target vaccination efforts and messages.

Number of schools reporting >10% absenteeism due to any illness

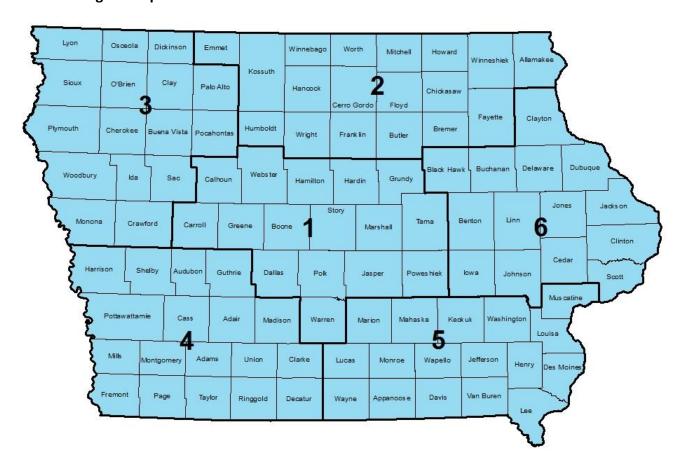
REGION	CURRENT WEEK	CUMULATIVE (9/29/19–CURRENT WEEK)
Region 1 (Central)	0	0
Region 2 (NE)	0	0
Region 3 (NW)	0	0
Region 4 (SW)	0	0
Region 5 (SE)	0	0
Region 6 (Eastern)	0	0
Total	0	0

Note: see map in the school section for the counties in each region.

Percent of enrolled students absent due to illness reported by sentinel schools



Iowa Influenza Region Map



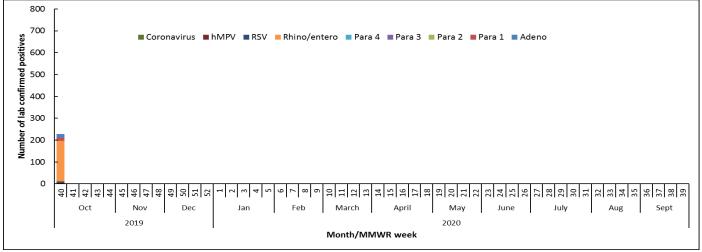
Non-influenza respiratory viruses:

The State Hygienic Laboratory (SHL) runs a weekly web-based survey program where laboratorians report the number of positive tests for non-influenza respiratory viruses. This table also includes the positive non-influenza virus tests reported from the Dunes Medical Laboratories at Mercy Medical Center in Sioux City. The table includes only the number of positive tests at laboratory surveillance sites throughout the state. The table does not provide case counts.

Number of positive results for non-influenza respiratory virus reported by clinical laboratories

Viruses	CURRENT WEEK	CUMULATIVE (9/29/19–CURRENT WEEK)
Adenovirus	18	18
Parainfluenza Virus Type 1	13	13
Parainfluenza Virus Type 2	1	1
Parainfluenza Virus Type 3	0	0
Parainfluenza Virus Type 4	0	0
Rhinovirus/Enterovirus	185	185
Respiratory syncytial virus (RSV)	6	6
Human metapneumovirus (hMPV)	4	4
Coronavirus	1	1





Other resources:

Vaccine:

Influenza vaccine recommendation: idph.iowa.gov/immtb/immunization/influenza/recommendations

CDC vaccine information: www.cdc.gov/flu/faq/flu-vaccine-types.htm

Vaccine finder: http://vaccinefinder.org/

Neighboring states' influenza information:

Illinois: www.dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance

Minnesota: www.health.state.mn.us/divs/idepc/diseases/flu/stats/index.html

Missouri: health.mo.gov/living/healthcondiseases/communicable/influenza/reports.php

South Dakota: doh.sd.gov/diseases/infectious/flu/

Wisconsin: www.dhs.wisconsin.gov/influenza/index.htm